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News Release

OFS TO PRESENT INVITED PAPER ON MULTICORE OPTICAL FIBERS FOR DISTRIBUTED SENSING AT SPIE DSS 2014, BALTIMORE, MD

Avon, Connecticut, May 3, 2014 - OFS, a leading designer, manufacturer, and supplier of innovative fiber optic products will present an invited paper on advances in use of multicore optical fibers for distributed temperature sensing applications. The paper (9098-32) will be presented during the SPIE Sensing Technology + Applications sub-conference within SPIE DSS 2014 at the Baltimore Convention Center in Baltimore, Maryland on Friday, May 9th, Room 330. The paper will be presented by its co-author, Dr. Xiaoguang Sun.

Entitled "A Multicore Optical Fiber for Distributed Sensing," the paper explores the use of multiple photonic waveguides within a homogeneous optical fiber structure for fully distributed harsh environment sensing over long lengths with improved accuracy and significantly reduced sensor cross section. With advancements in optical fiber technology, adding multiple sensing functionality in a single fiber structure opens the possibility to deploy, in extremely small cross section, dielectric, fully distributed, long length optical sensors. To illustrate the concept OFS designed and manufactured a multicore optical fiber with three graded index multimode (MM) and one single mode (SM) cores. The fiber was coated with Silicone coating and ETFE buffer for high temperature applications. Fiber properties such as geometry, crosstalk and attenuation etc. are described. A practical method for coupling the signal from the individual cores to separate optical fibers is also presented.

Mr. Michael Fortin, OFS Vice President of Marketing and Sales, states, "We are often asked to develop complex optical fibers for both sensing and data transmission. Suitability for harsh conditions, like those found in oil and gas applications, is always a consideration." Fortin continues, "This presentation is pertinent and extremely useful for the market and demonstrates our commitment to providing products and solutions that meet the critical requirements of our customers."

For more information on all of the presentation by OFS please visit the SPIE DSS 2014 web site. For more information on these and other OFS products, stop by the OFS booth #1150 during DSS 2014 or visit www.specialtyphotonics.com.

About OFS

OFS is a world-leading designer, manufacturer and provider of optical fiber, optical fiber cable, connectivity, FTTX and specialty photonics solutions. Our marketing, sales, manufacturing and research teams provide forward-looking, innovative products and solutions in areas including Telecommunications, Medicine, Industrial Automation, Sensing, Government, Aerospace and Defense applications. We provide reliable, cost effective optical solutions to enable our customers to meet the needs of today's and tomorrow's digital and energy consumers and businesses.

OFS' corporate lineage dates back to 1876 and includes technology powerhouses such as AT&T and Lucent Technologies. Today, OFS is owned by Furukawa Electric, a multi-billion dollar global leader in optical communications.

Headquartered in Norcross (near Atlanta) Georgia, U.S., OFS is a global provider with facilities in China, Denmark, Germany, Russia, and the United States.

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